

PCT REQUEST

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| 0 | For receiving Office use only | |
| 0-1 | International Application No. | |
| 0-2 | International Filing Date | |
| 0-3 | Name of receiving Office and "PCT International Application" | |
| 0-4 | Form PCT/RO/101 PCT Request | |
| 0-4-1 | Prepared Using | PCT-SAFE Version 3.50 (Build 0002.162) |
| 0-5 | Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty | |
| 0-6 | Receiving Office (specified by the applicant) | Korean Intellectual Property Office (RO/KR) |
| 0-7 | Applicant's or agent's file reference | SH-21349-PCT |
| I | Title of Invention | SUPER RESOLUTION INFORMATION STORAGE MEDIUM AND METHOD OF PREVENTING THE SAME FROM DETERIORATION |
| II | Applicant | |
| II-1 | This person is | applicant only |
| II-2 | Applicant for | all designated States except US |
| II-4 | Name | SAMSUNG ELECTRONICS CO., LTD. |
| II-5 | Address | 416, Maetan-dong, Yeongtong-gu Suwon-si Gyeonggi-do442-742 Republic of Korea |
| II-6 | State of nationality | KR |
| II-7 | State of residence | KR |
| II-8 | Telephone No. | 82-31-200-3063 |
| II-9 | Facsimile No. | 82-31-200-3272 |
| II-10 | e-mail | ok.hyung@samsung.com |
| II-11 | Applicant's registration No. with the Office | 1-1998-104271-3 |

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|---------|----------------------------------|--|
| III-1 | Applicant and/or inventor | |
| III-1-1 | This person is | applicant and inventor |
| III-1-2 | Applicant for | US only |
| III-1-4 | Name (LAST, First) | KIM, Hyun-Ki |
| III-1-5 | Address | 216-702 Hyundai Town Apt., 868 Banwol-ri, Taeon-eup Hwaseong-si Gyeonggi-do445-983 Republic of Korea |
| III-1-6 | State of nationality | KR |
| III-1-7 | State of residence | KR |
| III-2 | Applicant and/or inventor | |
| III-2-1 | This person is | applicant and inventor |
| III-2-2 | Applicant for | US only |
| III-2-4 | Name (LAST, First) | KIM, Joo-Ho |
| III-2-5 | Address | 103-901 SK Apt., 700 Seocheon-ri, Giheung-eup Yongin-si Gyeonggi-do449-959 Republic of Korea |
| III-2-6 | State of nationality | KR |
| III-2-7 | State of residence | KR |
| III-3 | Applicant and/or inventor | |
| III-3-1 | This person is | applicant and inventor |
| III-3-2 | Applicant for | US only |
| III-3-4 | Name (LAST, First) | HWANG, In-Oh |
| III-3-5 | Address | 325-801 Sibeomdanji Hanyang Apt. Seohyun-dong, Bundang-gu Seongnam-si Gyeonggi-do463-776 Republic of Korea |
| III-3-6 | State of nationality | KR |
| III-3-7 | State of residence | KR |

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| III-4 | Applicant and/or inventor | |
| III-4-1 | This person is | applicant and inventor |
| III-4-2 | Applicant for | US only |
| III-4-4 | Name (LAST, First) | YOON, Du-Seop |
| III-4-5 | Address | 311-502 Sibeomdanji Hanyang Apt. Seohyun-dong, Bundang-gu Seongnam-si Gyeonggi-do463-776 Republic of Korea |
| III-4-6 | State of nationality | KR |
| III-4-7 | State of residence | KR |
| IV-1 | Agent or common representative; or address for correspondence | |
| | The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: | agent |
| IV-1-1 | Name (LAST, First) | LEE, Young-Pil |
| IV-1-2 | Address | The Cheonghwa Building, 1571-18 Seocho-dong, Seocho-gu Seoul137-874 Republic of Korea |
| IV-1-3 | Telephone No. | 82-2-588-8585 |
| IV-1-4 | Facsimile No. | 82-2-588-8547 |
| IV-1-5 | e-mail | iplaw@leemock.com |
| IV-1-6 | Agent's registration No. | 9-1998-000334-6 |
| V | DESIGNATIONS | |
| V-1 | The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. | |
| V-2 | Item V-2 may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. As to the consequences of such national law provisions in these and certain other States, see Designations in PCT-SAFE Help. | KR |

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| VI-1 | Priority claim of earlier national application | | |
| VI-1-1 | Filing date | 05 December 2003 (05.12.2003) | |
| VI-1-2 | Number | 10-2003-0088167 | |
| VI-1-3 | Country | KR | |
| VII-1 | International Searching Authority Chosen | Korean Intellectual Property Office (ISA/KR) | |
| VIII | Declarations | Number of declarations | |
| VIII-1 | Declaration as to the identity of the inventor | - | |
| VIII-2 | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | - | |
| VIII-3 | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | - | |
| VIII-4 | Declaration of inventorship (only for the purposes of the designation of the United States of America) | - | |
| VIII-5 | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | - | |
| IX | Check list | number of sheets | electronic file(s) attached |
| IX-1 | Request (including declaration sheets) | 5 | ✓ |
| IX-2 | Description | 10 | ✓ |
| IX-3 | Claims | 2 | ✓ |
| IX-4 | Abstract | 1 | ✓ |
| IX-5 | Drawings | 5 | ✓ |
| IX-7 | TOTAL | 23 | |
| | Accompanying Items | paper document(s) attached | electronic file(s) attached |
| IX-8 | Fee calculation sheet | - | ✓ |
| IX-11 | Copy of general power of attorney | - | reference no. 6-1-2004-0000213-65 |
| IX-17 | PCT-SAFE physical media | - | - |
| IX-19 | Figure of the drawings which should accompany the abstract | 1A | |
| IX-20 | Language of filing of the international application | English | |
| X-1 | Signature of applicant, agent or common representative | (PKCS7 Digital Signature) | |
| X-1-1 | Name (LAST, First) | LEE, Young-Pil | |
| X-1-2 | Name of signatory | | |
| X-1-3 | Capacity | | |

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| 10-1 | Date of actual receipt of the purported international application | |
| 10-2 | Drawings: | |
| 10-2-1 | Received | |
| 10-2-2 | Not received | |
| 10-3 | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application | |
| 10-4 | Date of timely receipt of the required corrections under PCT Article 11(2) | |
| 10-5 | International Searching Authority | ISA/KR |
| 10-6 | Transmittal of search copy delayed until search fee is paid | |

FOR INTERNATIONAL BUREAU USE ONLY

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| 11-1 | Date of receipt of the record copy by the International Bureau | |
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PCT REQUEST (ANNEX - FEE CALCULATION SHEET)

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(This sheet is not part of and does not count as a sheet of the international application)

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| 0 | For receiving Office use only | | |
| 0-1 | International Application No. | | |
| 0-2 | Date stamp of the receiving Office | | |
| 0-4 | Form PCT/RO/101 (Annex) | | |
| 0-4-1 | PCT Fee Calculation Sheet Prepared Using | PCT-SAFE Version 3.50 (Build 0002.162) | |
| 0-9 | Applicant's or agent's file reference | | SH-21349-PCT |
| 2 | Applicant | | SAMSUNG ELECTRONICS CO., LTD. |
| 12 | Calculation of prescribed fees | fee amount/multiplier | Total amounts (KRW) |
| 12-1 | Transmittal fee T | ⇒ | 45000 |
| 12-2-1 | Search fee S | ⇒ | 225000 |
| 12-2-2 | International search to be carried out by | KR | |
| 12-3 | International filing fee (first 30 sheets) i1 | 1329000 | |
| 12-4 | Remaining sheets | 0 | |
| 12-5 | Additional amount (X) | 0 | |
| 12-6 | Total additional amount i2 | 0 | |
| 12-7 | i1 + i2 = i | 1329000 | |
| 12-12 | Electronic Filing reduction (Full) R | -285000 | |
| 12-13 | Total International filing fee (i-R) I | ⇒ | 1044000 |
| 12-14 | Fee for priority document | | |
| | Number of priority documents requested | 0 | |
| 12-15 | Fee per document (X) | 0 | |
| 12-16 | Total priority document fee: P | ⇒ | |
| 12-17 | TOTAL FEES PAYABLE (T+S+I+P) | ⇒ | 1314000 |
| 12-19 | Mode of payment | cash | |